
LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 307

UNFERMENTED GRAPE JUICE

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UNFERMENTED GRAPE JUICE

J. U. VINCENT, Esq.,
Deputy Minister
Inland Revenue,

OTTAWA, March 11, 1915.

SIR,—I beg to hand you a report dealing with one hundred and eleven samples (111) of Unfermented Grape Juice as sold in Canada. These samples were purchased by our inspectors in October, November and December of last year.

Our last systematic inspection of this article was made in 1908, when work upon seventy (70) samples was reported (Bull. 166). Since that time Grape Juice appears to be in larger demand, if one may judge by the number of places in which it is offered for sale.

The present collection represents twenty-one (21) different brands, as below:—

| Brand. | | Number of Samples. |
|--------------------------|---|--------------------------|
| Bass Island..... | Bass Island Vineyard Co., Sandusky, Ohio..... | 2 |
| E. D. S..... | E. D. Smith, Winona, Ont..... | 12 |
| Fremont..... | The Fremont Grape Juice Co., Fremont, Ohio..... | 4 |
| Glassco's..... | Glassco's Limited, Hamilton and Oakville..... | 2 |
| Imperial..... | Hagar Bros., Welland, Ont..... | 1 |
| Liggett's..... | United Drug Co., Toronto, Ont..... | 5 |
| P. Leos..... | Peter Leos, Collingwood, Ont..... | 1 |
| McLaughlin..... | J. J. McLaughlin, Limited, Toronto, Ont..... | 2 |
| Noyes..... | Grape Juice Co., Niagara Falls..... | 1 |
| Pelee Island..... | Pelee Island Wine and Vineyard Co., Brantford and Pelee Island, Ont..... | 2 |
| Randalls Gold Medal..... | Randall Grape Juice Co., Jordan, Ont..... | 8 |
| Red Wing..... | Puritan Food Products, Fredonia, N. Y..... | 7 |
| Royal..... | Ontario Grape Growing and Wine Mfg. Co., St. Catharines, Ont..... | 1 |
| Royal Purple..... | J. Hungerford Smith Co., Rochester, N. Y..... | 1 |
| Schuhles..... | Schuhles Pure Grape Juice, Highlands, N. Y..... | 7 |
| Shirriffs..... | Shirriffs, Toronto, Ont..... | 4 |
| Sterling..... | T. A. Lytle Co., Toronto, Ont..... | 1 |
| Top Notch..... | Armours Co., Ltd., Chicago, Ill..... | 9 |
| Walker..... | The Grape Products, North East, Pa..... | 3 |
| Walker..... | Walker Grape Products Co., Erie, Pa..... | 10 |
| Welch..... | Welch Grape Juice Co., Westfield, N. Y..... | 28 |
| Total..... | | 111 |

owing to the large amount of work in arrears here, and to the labour involved in making a complete analysis of this article, I have not considered it necessary to make a full examination of every sample; but a sufficient number of samples of each brand has been examined, to form a basis for judgment.

The results show that, for the most part, Unfermented Grape Juice is true to name, and is rendered marketable by sterilization and hermetic sealing. With very few exceptions the alcohol content is below the legal limit of two per cent (2 p. c.) volume; and in many instances, mere negligible traces are found. Exceptions are Nos. 63536, 63931, (Pelee Island) and 63967 (Sterling).

The other legal requirements for grape juice are as follows:—

Specific gravity, between 1.0400 and 1.1240 at 20°C.

Total sugars between 7 and 28 per cent stated as reducing sugars.

Ash between 20 and 55 centigrammes per 100 cubic centimetres; phosphoric (as P₂O₅) between 15 and 70 milligrammes per 100cc. With very few exceptions, these limits are met by the samples now reported. The exceptions, which in all cases are small, indicate additions of sugar or water or both to the grape juice.

I beg to recommend publication of this report as Bulletin No. 307.

I have the honour to be, Sir

Your obedient servant,

A. MCGILL,

Chief Analyst.

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | Inspector's Report. (Is not an expression of opinion.) |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|---|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |

DISTRICT OF NOVA SCOTIA—

| | | | | | | | | |
|---------|--------------------------|-------|---------------------------------------|---------|------|--|----------------------------|------------|
| 1914. | | | | | | | | |
| Dec. 29 | Unfermented Grape Juice. | 54226 | National Drug and Chem. Co., Halifax. | 3 bots. | 0 25 | Welch Grape Juice Co., Westfield, N.Y. | ..... | Welch.... |
| 1915. | | | | | | | | |
| Jan. 12 | " .. | 54227 | S. F. Courtney & Co., Halifax. | 3 " .. | 0 30 | J. Schuhles, Highland, N.Y. | John Tobin & Co., Halifax. | Schuhles.. |
| " 14 | " .. | 54228 | G. C. McDougall, Kentville. | 3 " .. | 0 60 | United Drug Co., Toronto. | ..... | Liggett's. |

DISTRICT OF NEW BRUNSWICK—

| | | | | | | | | |
|--------|--------------------------|-------|---|---------|------|--|-------|---------------|
| 1914. | | | | | | | | |
| Nov. 9 | Unfermented Grape Juice. | 59611 | National Drug and Chem. Co., St. John. | 3 bots. | 0 60 | J. J. McLaughlin, Ltd., Toronto. | ..... | McLaughlin's. |
| " 11 | " .. | 59612 | Canadian Drug Co., Ltd., 70 Prince William St., St. John. | 3 " .. | 1 00 | Welch Grape Juice Co., Westfield, N.Y. | ..... | Welch.... |
| " 20 | " .. | 59613 | C. H. Burt, 332 Queen St., Fredericton. | 3 " .. | 0 75 | E. D. Smith, Winona. | ..... | E. D. S... |
| " 26 | " .. | 59614 | A. V. Cheechi, Water St., St. Stephen. | 3 " .. | 0 75 | Welch Grape Juice Co., Westfield, N.Y. | ..... | Welch.... |
| Dec. 9 | " .. | 59615 | Leger Drug Co., Ltd., Main St., Moncton. | 3 " .. | 0 60 | Randall Grape Juice Co., Jordan, Ont. | ..... | Randall's. |

DISTRICT OF PRINCE EDWARD ISLAND—

| | | | | | | | | |
|---------|--------------------------|-------|-----------------------------------|---------|------|--|-------|--------------|
| Oct. 24 | Unfermented Grape Juice. | 60156 | Beer & Goff, Charlottetown. | 3 pints | 1 05 | Welch Grape Juice Co., Westfield, N.Y. | ..... | Welch.... |
| " 27 | " .. | 60157 | W. W. Walker, Charlottetown. | 3 " .. | 0 90 | Shirriff, Toronto. | ..... | Shirriff's.. |
| " 27 | " .. | 60158 | Johnson & Johnson, Charlottetown. | 3 bots. | 0 45 | Walker Grape Products Co., Erie, Pa. | ..... | Walker's.. |
| " 30 | " .. | 60159 | Geo. E. Hughes, Charlottetown. | 3 qts. | 2 25 | Vendor..... | ..... | Randall's. |

UNFERMENTED GRAPE JUICE.

| Results of Analysis. | | | | | | | | | | | No. of Sample. | Remarks and Opinion of the Chief Analyst. | |
|----------------------|------------------------|--------------------|---------------------------------------|---|----------------------------------|----------------|-----------------------------------|-------------------------------|--|----------------|----------------|--|-------|
| Sp. Gr. of Juice. | Sp. Gr. of Distillate. | Alcohol by Volume. | Sp. Gr. of De-alcohol- ized Juice. | Extract. | | Ash per 100cc. | Acidity as Tartaric per 100cc. | Reducing Sugars per 100cc. | Milligrams Phosphoric Acid per 100cc. | Preservatives. | | | Dyes. |
| | | | | From Sp. Gr. of De-alcoholized Juice. | By drying 24 hours at 100° C. | | | | | | | | |

R. J. WAUGH, INSPECTOR.

| | | | | | | | | | | | | |
|-----|--------|------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|
| See | Sample | Nos. | 60710, | 55113, | 63545, | 2622, | 63955, | 60156 | ..... | ..... | ..... | 54226 |
| " | " | " | 64610 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 54227 |
| " | " | " | 61701 | and | 63541 | ..... | ..... | ..... | ..... | ..... | ..... | 54228 |

J. C. FERGUSON, INSPECTOR.

| | | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|----------|
| 1-9761 | 1-000 | None. | 1-0761 | 19-76 | 17-13 | 0-260 | 1-22 | 17-25 | 21 | None. | None. | 59611 | Genuine. |
| See | Sample | Nos. | 60710, | 55113, | 63545, | 2622, | 63955, | 60156 | ..... | ..... | ..... | 59612 | |
| " | " | " | 55112, | 60709, | 64537, | 2621 | ..... | ..... | ..... | ..... | ..... | 59613 | |
| " | " | No. | 59612 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 59614 | |
| " | " | Nos. | 60159 | and | 62013 | ..... | ..... | ..... | ..... | ..... | ..... | 59615 | |

WM. WEEKS, INSPECTOR.

| | | | | | | | | | | | | | |
|-------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| 1-073 | 0-9990 | 0-66 | 1-083 | 21-57 | 15-11 | 0-230 | 1-02 | 18-41 | 25 | None. | None. | 60156 | Genuine |
| See | Sample | No. | 215 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 60157 | |
| " | " | " | 61175 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 60158 | |
| 1-061 | 0-9999 | 0-07 | 1-062 | 16-07 | 13-74 | 0-225 | 0-803 | 12-89 | 26 | None. | None. | 60159 | Genuine |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | Inspector's Report. (Is not an expression of opinion.) |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|--|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |

DISTRICT OF QUEBEC—

| | | | | | | | | |
|-------|---|--------------------------|--|---------|------|------------------------------|--------------------------|-----------|
| 1914. | | | | | | | | |
| Nov. | 3 | Unfermented Grape Juice. | 60709 O. Lacroix, 19 Rue St. Joseph, Quebec. | 3 bots. | 0 90 | Louis Frère & Cie, Bordeaux. | H. Turcotte & Cie. | E. D. S. |
| " | 3 | " | 60710 A. Grenier, 94 Rue St. Jean, Quebec. | 3 " | 1 05 | Welch, Westfield, N.Y. | Lyman's, Ltd., Montreal. | Welch... |
| " | 9 | " | 60711 Els. Turcotte, 74 Rue Desfores, Quebec. | 3 " | 0 30 | Walker Grape Fruit. | | Walker's. |
| " | 9 | " | 60712 C. Riverin, 55 Rue de la Couronne, Quebec. | 3 " | 0 60 | " | " | " |
| " | 9 | " | 60713 T. E. Charos, 2644 Rue St. Joseph, Quebec. | 3 " | 0 30 | Howe & McIntyre, Montreal. | | Welch... |

DISTRICT OF THREE RIVERS—

| | | | | | | | | |
|------|----|--------------|------------------------------------|--------|------|--|--|----------|
| Oct. | 23 | Grape Juice. | 2620 I. T. Gaudet, Joliette. | 3 bot. | 1 15 | Welch Grape Juice Co., Westfield, N.Y. | | Welch... |
| " | 24 | " | 2621 C. Barette, Joliette | 3 " | 75 | Hellerleigh, Winona, Ont. | | E. D. S. |
| " | 29 | " | 2622 Archibald Duff, Charlemagne. | 3 " | 1.80 | Welch Grape Juice Co., Westfield, N.Y. | | Welch... |
| " | 29 | " | 2647 O. Carignan, Three Rivers. | 3 " | 60 | " | | " |
| " | 29 | " | 2685 R. W. Williams, Three Rivers. | 3 " | 1.05 | " | | " |

DISTRICT OF WEST QUEBEC—

| | | | | | | | | |
|------|---|--------------|---|--------|----|------------|--|-------------|
| Nov. | 2 | Grape Juice. | 215 St. Agathe Ice Cream Parlor Co., St. Agathe, des Monts. | 3 bot. | 75 | Shirriff's | | Shirriff's. |
| " | 2 | " | 218 F. D. Hall, St. Agathe, des Monts. | 3 " | 30 | Walker's | | Walker's. |

DISTRICT OF MONTREAL—

| | | | | | | | | |
|------|---|--------------------------|--|--------|------|---|--|--------------|
| Dec. | 2 | Unfermented Grape Juice. | 62535 D. Nassapulos, 231 Craig st. w., Montreal | 3 bot. | 90 | Welch Grape Juice Co., Westfield, N.Y. | | Welch... |
| " | 2 | " | 62536 G. Tsipmas, 80 Windsor st., Montreal. | 3 " | 75 | J.J. McLaughlin, Ltd., Toronto. | | McLaughlins. |
| " | 2 | " | 62537 Jaseby's Drug Store, 293 St. Catherine st. w., Montreal. | 3 " | 1.00 | Schuhles Grape Juice Co., Highland Ulster Co., N.Y. | | Schuhles. |

UNFERMENTED GRAPE JUICE.

| Results of Analysis. | | | | | |
|---------------------------------------|--|--|--|--|---|
| No. or Name of Juice. | | | | | |
| Sp. Gr. of Distillate. | | | | | |
| Alcohol by Volume. | | | | | |
| Sp. Gr. of De-alcoholized Juice. | | | | | |
| From Sp. Gr. of De-alcoholized Juice. | | | | | |
| By drying 24 hours at 100° C. | | | | | |
| Ash per 100cc. | | | | | |
| Acidity as Tartaric acid per 100cc. | | | | | |
| Reducing sugars per 100cc. | | | | | |
| Milligrams Phosphoric Acid per 100cc. | | | | | |
| Preservative. | | | | | |
| Dyes. | | | | | |
| No. of Sample. | | | | | |
| | | | | | Remarks and Opinion of the Chief Analyst. |

F. X. W. F. BELAND, INSPECTOR.

[illegible]

DR. V. P. LAVALLEE, INSPECTOR.

[illegible]

N. DIEUX, INSPECTOR.

[illegible]

D. J. KEARNEY, INSPECTOR.

[illegible]

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | Inspector's Report. (Is not an expression of opinion.) |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|--|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |

DISTRICT OF MONTREAL—

| | | | | | | | | |
|-------|----|--------------------------|--|--------|------|---|--|------------|
| 1914. | | | | | | | | |
| Dec. | 3 | Unfermented Grape Juice. | 62538 Ed. Tessier, 982 St. Catherine st., east, Montreal. | 3 bot. | 75 | Randall Grape Juice Co., Jordan, Ont. | | Randall's. |
| " | 4 | " | 62539 J. A. Demetie, 1494 St. Lawrence Boul., Montreal. | 3 " | 1.00 | E. D. Smith, Winona, Ont. | | E. D. S... |
| " | 10 | " | 62540 J. W. Harding, 46 St. Alexander, st., Montreal. | 3 " | 75 | Puritan Food Products Co., Inc., Fredonia, N.Y. | | Red Wine |
| " | 11 | " | 62541 G. Demetie, 590 St. Catherine st. e., Montreal. | 3 " | 2.75 | Armours. | | Top Notch |
| " | 14 | " | 62542 Freeman's Drug Store, 27 St. Catherine st. west, Montreal. | 3 " | 1.20 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " | 14 | " | 62543 J. H. Goulden, 471 Bleury st., Montreal. | 3 " | 1.00 | Schuhles Pure Grape Juice Co., Highland, Ulster Co., N.Y. | | Schuhle's. |
| " | 14 | " | 62544 F. J. Payette, 385 Bleury st., Montreal. | 3 " | 45 | E. D. Smith | | E. D. S... |

DISTRICT OF VALLEYFIELD AND ST. HYACINTHE—

| | | | | | | | | |
|------|----|--------------|---|--------|------|--|--|------------|
| Nov. | 11 | Grape Juice. | 63016 The Daly Grocery Co., Stanstead, | 3 bot. | 1.05 | Schuhles P.G.J. Co., Highland, N.Y. | | Schuhle's. |
| " | 17 | " | 62836 F. W. Warwick, Grocer, Buckingham. | 3 " | 75 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " | 18 | " | 62837 W. R. Simpson, Grocer, St. Johns. | 3 " | 90 | Puritan Food Products Co., Inc. | | Red Wing |
| " | 23 | " | 63017 G. Brosseau Girouard, St. Hyacinthe. | 3 " | 0 75 | E. D. Smith, Winona, Ont. | | E.D.S.... |
| " | 24 | " | 63018 Bray Bros., Wellington St., Sherbrooke. | 3 " | 1 05 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " | 24 | " | 63019 " " " | 3 " | 0 90 | " | | " |
| " | 25 | " | 63020 J. E. Dozois, Main St., Granby. | 3 " | 1 00 | E. D. Smith, Winona, Ont. | | E.D.S.... |
| Dec. | 9 | " | 62839 James Fortune, Huntingdon. | 3 " | 1 05 | Welch Grape Juice Co., Westfield, N.Y. | | Welsh.... |

Concluded.

J. J. COSTIGAN, ACTING INSPECTOR.

| | | | | | | | | | | |
|-----|------------|--------|--------|--------|--------|-------|--------|-------|--|-------|
| See | Sample No. | 64610 | | | | | | | | 63016 |
| See | Sample No. | 2620 | | | | | | | | 62836 |
| See | Sample No. | 61566 | | | | | | | | 62837 |
| See | Sample No. | 55112, | 60709, | 64537, | 2621 | | | | | 63017 |
| " | " | " | 55113, | 60710, | 63545, | 2622, | 63955, | 60156 | | 63018 |
| " | " | " | 55113, | 60710, | 63545, | 2622, | 63955, | 60156 | | 63019 |
| " | " | " | 63017 | | | | | | | 63020 |
| " | " | " | 63018 | | | | | | | 62839 |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the vendor. | | Inspector's report. (Is not an expression of opinion). |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|--|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |

DISTRICT OF OTTAWA—

| | | | | | | | | |
|-------|----|--------------------------|---|--------|------|--|---------------------------|--|
| 1914. | | | | | | | | |
| Oct. | 24 | Unfermented Grape Juice. | 63536 W. D. MacLennan, Kemptville. | 3 bot. | 1 50 | Pelee Isl. Wine & Vineyard Co., Pelee Island. | ..... | Pelee Isl. and. |
| " | 31 | " | 63537 O. C. Abott, Smith's Falls. | 3 " | 1 50 | Hagar Bros, Welland, Ont. | ..... | Imperial Brand. |
| Nov. | 6 | " | 63538 E. D. Story, Ottawa... | 3 " | 0 60 | Walker's Grape Products, Erie, Pa. | F. Bradley, Ottawa Agent. | Walker's. |
| " | 6 | " | 63539 D. S. Johnston, Rideau St., Ottawa. | 3 " | 0 60 | Welsh Grape Juice Co., Westfield, N.Y. | Ottawa Drug Co., Ottawa. | Welch... |
| " | 6 | " | 63540 T. W. Collins, Ottawa. | 3 " | 0 60 | Schuhles, P.G.J. Co., Inc., Highland, Ulster Co., N.Y. | ..... | Schuhle's. Contains about 2 % gran. sugar. |
| " | 6 | " | 63541 Allen & Cochrane, Walker St., Ottawa. | 3 " | 1 80 | United Drug Co., Toronto. | ..... | Liggett's. |
| " | 7 | " | 63542 E. M. Ahern, Ottawa. | 3 " | 0 45 | E. D. Smith, Winona, Ont. | ..... | E.D.S.... |
| " | 7 | " | 63543 Bryson Graham, Ltd., Ottawa. | 3 " | 0 99 | Armour & Co., Chicago. | ..... | Top Notch Brand. |
| " | 7 | " | 63544 " " " | 3 " | 0 75 | Ont. Grape Juice Co., Niagara Falls. | ..... | Noye's.... |
| " | 7 | " | 63545 N. W. Campbell, Ottawa. | 3 " | 1 90 | Welsh Grape Juice Co., Westfield, N.Y. | ..... | Welch.... |

DISTRICT OF KINGSTON—

| | | | | | | | | |
|------|---|--------------------------|--------------------------------------|-----|------|--------------------------|-------|-----------------|
| Nov. | 2 | Unfermented Grape Juice. | 61565 F. L. Hooper, Napanee. | 3 " | 1 05 | ..... | ..... | Red Wing Brand. |
| " | 2 | " | 61566 T. B. Wallace, Napanee. | 3 " | 1 20 | ..... | ..... | " |
| " | 3 | " | 61567 D.M. Waters, Belleville | 3 " | 1 05 | ..... | ..... | " |
| " | 3 | " | 61568 W. Burnett, Cobourg. | 3 " | 0 75 | Glassco's, Hamilton. | ..... | Glassco's. |
| " | 4 | " | 61569 The Warne Drug Co., Peterboro. | 3 " | 1 05 | Welsh's, Westfield, N.Y. | ..... | Welch.... |

Remarks
and opinion
of the chief
Analyst.

| | | | | | | | | | | | | | |
|-------------------|------------------------|---------------------|----------------------------------|--------------------------------------|-------------------------------|----------------|--------------------------------|----------------------------|--------------------------------------|----------------|-------|----------------|---|
| Sp. Gr. of Juice. | Sp. Gr. of Distillate. | Alcohol by volumes. | Sp. Gr. of De-alcoholized juice. | From Sp. or of De-alcoholized juice. | By drying 24 hours at 100° C. | Ash per 100cc. | Acidity as Tartaric per 100cc. | Reducing Sugars per 100cc. | Milligram Phosphoric Acid per 100cc. | Preservatives. | Dyes. | No. of Sample. | Remarks and opinion of the chief Analyst. |
|-------------------|------------------------|---------------------|----------------------------------|--------------------------------------|-------------------------------|----------------|--------------------------------|----------------------------|--------------------------------------|----------------|-------|----------------|---|

| | | | | | | | | | | | | | |
|--------|--------|------|--------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|---|
| 1 1366 | 0.9935 | 4.63 | 1.1431 | 37.05 | 36.49 | 0.200 | 0.900 | 29.24 | 26 | None. | Pre- sent. | 63536 | Slight excess Sugars, and is dyed. Ex- cess Alco- hol. |
| 1 085 | 0.9990 | 0.07 | 1.085 | 22.36 | 19.84 | 0.210 | 0.908 | 20.99 | 13 | " | None. | 63537 | Slightly low in phosphoric acid. Other- wise Genu- ine. |
| See | Sample | No. | 61175 | | | | | | | | | 63538 | |
| " | " | " | 63018 | | | | | | | | | 63539 | |
| " | " | " | 64610 | | | | | | | | | 63540 | |
| 1 075 | 0.9997 | 0.20 | 1.077 | 20.00 | 16.82 | 0.270 | 0.823 | 16.79 | 44 | None. | None. | 63541 | Genuine. |
| See | Sample | No. | 63017 | | | | | | | | | 63542 | |
| 1 072 | 0.9996 | 0.26 | 1.076 | 19.73 | 14.73 | 0.210 | 0.855 | 15.15 | 42 | None. | None. | 63543 | Genuine. |
| 1 068 | 0.9996 | 0.26 | 1.070 | 18.16 | 13.75 | 0.200 | 1.15 | 15.55 | 12 | " | " | 63544 | Genuine, ex- cept that phosphoric acid is slight- ly low. |
| 1 067 | 0.9994 | 0.40 | 1.073 | 18.95 | 14.21 | 0.240 | 0.95 | 15.90 | 55 | " | " | 63545 | Genuine. |

[illegible]

BULLETIN No. 307—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | Inspector's Report. (Is not an expression of opinion.) |
|-----------------------|-------------------|----------------|--|-----------|--------|---|----------------------------|--|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |
| DISTRICT OF TORONTO-- | | | | | | | | |
| 1914. | | | | | | | | |
| Nov. 16 | Grape Juice. | 64601 | Peter Lees, Collingwood | 3 bots. | 0 45 | Vendor | | P. Lees |
| " 20 | " | 64602 | The Northway Co., Ltd., Orillia. | 3 " | 0 75 | Randall Grape Juice Co., Jordan, Ont. | | Randall's |
| " 21 | " | 64603 | H. J. Buchanan, Barrie. | 3 " | 0 90 | Welch Grape Juice Co., Westfield, N.Y. | | Welch |
| " 24 | " | 64604 | D. H. Bee, 240 Gerrard St. east, Toronto. | 3 " | 0 75 | Glassco Ltd., Hamilton. | | Glassco |
| " 25 | " | 64605 | Jordan & Saunders, 290 Dundas St., Toronto. | 3 " | 0 85 | | John Sloan & Co., Toronto. | Red Wing Brand. |
| " 26 | " | 64606 | Swan Bros., 162 King St. east, Toronto. | 3 " | 0 90 | Armour & Co., Chicago. | | Top Notch |
| " 26 | " | 64607 | J. Hungerford Smith Co., 19 Alice St., Toronto. | 3 " | 0 75 | Hungerford Smith Grape Juice Co., Rochester, N.Y. | | Royal Purple. |
| " 26 | " | 64608 | Liggett's Ltd., 224 Yonge St., Toronto. | 3 " | 0 90 | Randall Grape Juice Co., Jordan, Ont. | | Randall's. |
| " 26 | " | 64609 | The T. Eaton Co., Ltd., 190 Yonge St., Toronto. | 3 " | 0 90 | Bass Island Vineyard Co., Sandusky, Ohio. | | Bass Island. |
| " 26 | " | 64610 | McLaren Imperial Cheese Co., 69 Front St. east, Toronto. | 3 " | 0 51 | Schuhles P.G.J. Co., Highland, Ulster Co., N.Y. | | Schuhle's. |

DISTRICT OF HAMILTON—

| | | | | | | | | |
|--------|--------------------------|-------|--|---------|------|--|--------------------------------|-----------|
| Nov. 3 | Unfermented Grape Juice. | 64537 | J. A. Armour, 889 2nd Ave. east, Owen Sound. | 3 bots. | 0 75 | E. D. Smith, Winona, Ont. | | E. D. S. |
| " 10 | " | 64538 | E. E. Fisher & Sons, Dundas. | 3 " | 0 75 | Randall Grape Juice Co., Jordan, Ont. | | Randall's |
| " 10 | " | 64539 | A. A. Adams, 270 King St. east, Hamilton. | 3 " | 0 57 | | Imperial Extract Co., Toronto. | Imperial. |
| " 10 | " | 64540 | H. Taylor, 563 King St. east, Hamilton. | 3 " | 0 75 | | A. A. Adams, Hamilton. | Schuhle's |
| " 10 | " | 64541 | John Carpenter, Market Square, Hamilton. | 3 " | 0 75 | Ontario Grape Growing and Wine Mfg. Co., St. Catharines. | | Royal |

| Results of Analysis. | | | | | | | Remarks and Opinion of the Chief Analyst. |
|----------------------|------------------------|--------------------|---------------------------------------|--|----------------|--|--|
| Sp. Gr. of Juice. | Sp. Gr. of Distillate. | Alcohol by Volume. | Sp. Gr. of De-alcohol- ized Juice. | Extract. From Sp. Gr. of De-alcoholized Juice. By drying 24 hours at 100°C. | Ash per 100cc. | Acidity as Tartaric per 100cc. | |
| | | | | | | Reducing Sugars per 100cc. | |
| | | | | | | Milligrams Phosphoric Acid per 100cc. | |
| | | | | | | Preservatives. | |
| | | | | | | Dyes. | |
| | | | | | | No. of Sample. | |

| | | | | | | | | | | | | | |
|--------|--------|------|----------------------|-------|-------|--------------|-------|-------|-------|------------------------|-------|-------|---|
| 1 1051 | 0.9998 | 0.13 | 1.1053 | 27.43 | 26.95 | 0.340 | 1.60 | 19.98 | 30 | Benz- zoic acid. | None. | 64601 | Genuine, but contains benzoic acid. |
| See | Sample | Nos. | 60159, 60213 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 64602 | |
| " | " | " | 55113, 60710, 63545, | ..... | ..... | 2622, 63955, | 60156 | ..... | ..... | ..... | ..... | 64603 | |
| " | " | No. | 61568 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 64604 | |
| " | " | " | 61566 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 64605 | |
| " | " | Nos. | 55114, 63543 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 64606 | |
| 1 073 | 0.9996 | 0.26 | 1.077 | 20.00 | 15.02 | 0.220 | 1.00 | 18.16 | 23 | None. | None. | 64607 | Genuine. |
| See | Sample | Nos. | 60159, 62013 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 64608 | |
| 1 085 | 0.9996 | 0.26 | 1.089 | 23.14 | 17.53 | 0.250 | 1.25 | 20.11 | 39 | None. | None. | 64609 | Genuine. |
| 1 079 | 0.9916 | 0.26 | 1.083 | 21.57 | 16.62 | 0.210 | 0.93 | 14.84 | 64 | " | " | 64610 | " |

[illegible]

BULLETIN No. 307—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost of Manufacturer or Furnisher as given by the Vendor. | | Quantity. | Cents. | Name and Address of Manufacturer or Furnisher. | | Inspector's Report. (Is not an expression of opinion). |
|---------------------|-------------------|----------------|-----------------------------|---|--|-----------|--------|--|------------|---|
| | | | | | | | | Manufacturer. | Furnisher. | |

DISTRICT OF WINDSOR—

| | | | | | | | | | | |
|------|---|--------------------------|------------------------------------|---|-------|---|----|--|----------------------------|---------------|
| 1914 | | | | | | | | | | |
| Nov. | 3 | Unfermented Grape Juice. | 63931 J. D. McKenzie, Woodstock. | 3 | bots. | 2 | 25 | | J. S. Hamilton, Brantford. | Pelee Island. |
| " | 4 | " | 63955 J. Gustin, Simcoe. | 3 | " | 0 | 90 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " | 6 | " | 63967 J. A. Gillett, Aylmer, Ont. | 3 | " | 0 | 90 | T. A. Lytle Co., Toronto. | | Sterling. |
| " | 6 | " | 63972 H. G. Charlton, Aylmer, Ont. | 3 | " | 0 | 60 | Armour Co., Chicago. | | Top Notch |

DISTRICT OF MANITOBA—

| | | | | | | | | | | |
|------|----|--------------------------|---|---|-------|----|----|---|--|--------------|
| Oct. | 27 | Unfermented Grape Juice. | 61172 D. W. Bradshaw, Portage ave., Winnipeg. | 3 | bots. | 90 | | Walker Grape Products Co., Erie, Pa. | | Walker's.. |
| " | 27 | " | 61173 McCullough Drug Store, Portage and Sherbrooke sts., Winnipeg. | 3 | " | 1 | 05 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " | 27 | " | 61174 " " | 3 | " | 1 | 05 | Walker Grape Products Co., Erie, Pa. | | Walker's.. |
| " | 27 | " | 61175 Brookings Drug Store, Osborne st., Winnipeg. | 3 | " | 1 | 05 | The Grape Products Co., North East, Pa. | | " |
| " | 27 | " | 61176 Hardy & Buchanan, Osborne st., Winnipeg. | 3 | " | 90 | | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " | 28 | " | 61177 E. Nesbitt, druggist, 587 Sargent ave., Winnipeg. | 3 | " | 1 | 05 | Walker Grape Products Co., Erie, Pa. | | Walker's.. |
| " | 28 | " | 61178 The Sargent Pharmacy, Sargent ave., Winnipeg. | 3 | " | 90 | | Armour & Co., Hudson's Bay Co., Winnipeg. | | Top Notch |
| " | 28 | " | 61179 H. D. Campbell, Main st., north, Winnipeg. | 3 | " | 1 | 05 | Walker Grape Products Co., Erie, Pa. | | Walker's.. |
| " | 29 | " | 61180 The Gordon Mitchell Drug Co., 336 Portage ave., Winnipeg. | 3 | " | 75 | | Shirriff's, Toronto. | | Shirriff's.. |
| " | 29 | " | 61181 " " | 3 | " | 90 | | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | Inspector's Report. (Is not an expression of opinion). |
|------------------------------|--------------------------|----------------|---|-----------|--------|---|-------------------------------|--|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |
| DISTRICT OF SASKATCHEWAN— | | | | | | | | |
| 1914. | | | | | | | | |
| Oct. 28 | Grape Juice | 64057 | S. Miller, Prince Albert | 3 pints | 1 25 | Randall Grape Juice Co., Jordan, Ont. | | Randall Gold Medal Brand Walker's... |
| " 30 | " .. | 64069 | Saskatoon Liquor Co., Saskatoon. | 3 " | 90 | Walker Grape Products Co., Erie, Pa. | Swift-Canadian Co., Winnipeg. | |
| Nov. 3 | " .. | 64068 | W. H. Birt, Pense.... | 3 " | 75 | E. D. Smith, Winona, Ont. | | E.D.S.... |
| " 4 | " .. | 64085 | Gold Coin Liquor Store, Moose Jaw. | 3 " | 1 20 | Puritan Food Products Co., Fredonia, N.Y. | Codville Co., Moose Jaw | Red Wing Brand |
| " 4 | " .. | 64086 | Moose Jaw Drug and Stationery Co., Moose Jaw. | 3 " | 1 20 | United Drug Co., Toronto. | | Liggett Brand. |
| DISTRICT OF ALBERTA— | | | | | | | | |
| Nov. 18 | Unfermented Grape Juice. | 52029 | Pryce Jones (Canadian) Ltd., Calgary. | 3 bots. | 1 20 | Armour & Co., Chicago. | | Top Notch |
| " 19 | " .. | 52030 | Wendell Maclean, Calgary. | 3 " | 1 20 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " 25 | " .. | 52031 | Young Bros., Camrose | 3 " | 75 | The Grape Products Co., North East, Pa. | | Walker's... |
| " 26 | " .. | 52032 | Montgomery Bros., Wetaskiwin. | 3 " | 1 05 | Fremont Grape Juice Co., Fremont, Ohio. | | Fremont.. |
| " 27 | " .. | 52033 | A. M. Campbell, La combe. | 3 " | 1 20 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| DISTRICT OF ROCKY MOUNTAINS— | | | | | | | | |
| Nov. 10 | Grape Juice. | 61701 | E. W. Hazlewood, Trail. | 3 bots. | 1 80 | United Drug Co., Toronto. | | Liggett Brand. |
| " 10 | " .. | 61702 | Trail Grocery Co., Trail. | " | 1 35 | Welch Grape Juice Co., Westfield, N.Y. | | Welch.... |
| " 10 | " .. | 61703 | " " " | " | 1 20 | Fremont Grape Juice Co., Fremont, Ohio. | | Fremont.. |
| " 23 | " .. | 61724 | Western Liquor Co., Kamloops. | " | 2 25 | Bass Islands Vineyard Co., Sandusky, Ohio. | | Bass Island |
| " 23 | " .. | 61725 | Hudson's Bay Co., Kamloops. | " | 1 00 | Armour & Co., Chicago. | | Top Notch. |

| Results of Analysis. | | Remarks and Opinion of the Chief Analyst. |
|---------------------------------------|--|---|
| Sp. Gr. of Juice. | | |
| Sp. Gr. of Distillate. | | |
| Alcohol by Volume. | | |
| Sp. Gr. of De-alcoholized Juice. | | |
| From Sp. Gr. of De-alcoholized Juice. | | |
| By drying 24 hours at 100°C. | | |
| Ash per 100cc. | | |
| Acidity as Tartaric per 100cc. | | |
| Reducing sugars per 100cc. | | |
| Milligram Phosphoric Acid per 100cc. | | |
| Preservative. | | |
| Dyes. | | |
| No. of Sample. | | |

L. H. HALL, INSPECTOR.

[illegible]

A. W. R. MARKLEY, INSPECTOR.

[illegible]

THOS. PARKER, INSPECTOR.

[illegible]

BULLETIN No. 307—

| Date of Collection. | Nature of Sample. | No. of Sample. | Name and Address of Vendor. | Cost. | | Name and Address of Manufacturer or Furnisher as given by the Vendor. | | Inspector's Report (Is not an expression of opinion). |
|---------------------|-------------------|----------------|-----------------------------|-----------|--------|---|------------|---|
| | | | | Quantity. | Cents. | Manufacturer. | Furnisher. | |

DISTRICT OF VANCOUVER—

| | | | | | | | | |
|---------|--------------|-------|---|--------|------|--------------------------------------|--|------------|
| 1914. | | | | | | | | |
| Oct. 27 | Grape Juice. | 55111 | J. P. Sinclair, corner Commercial Dr. and 14th Ave., Vancouver. | 3 bts. | 0 90 | Fremont, G. J. Co., Fremont, Ohio. | | Fremont's |
| " 28 | " | 55112 | F. Lyons, Commercial Dr., Vancouver. | " | 0 60 | E. D. Smith, Winona, Ont. | | E.D.S. |
| " 29 | " | 55113 | T. W. Turner, 890 Pender St., Vancouver. | " | 1 00 | Welch, G. J., Co., Westfield, N.Y. | | Welch |
| " 29 | " | 55114 | W. H. Walsh, corner Davie and Seymour St., Vancouver. | " | 0 75 | Armour & Co., U.S.A. | | Top Notch |
| " 29 | " | 55115 | A. Murphy & Co., 1102 Granville St., Vancouver. | " | 0 75 | The Randall, G. J. Co., Jordan, Ont. | | Randall's. |

DISTRICT OF VICTORIA—

| | | | | | | | | |
|--------|--------------|-------|--|--------|------|---|--|----------------------------|
| Nov. 5 | Grape Juice. | 62003 | The Windsor Grocery Co., 817 Govt. St., Victoria. | 3 pts. | 1 05 | Armour & Co., Chicago. | | Top Notch Brand. |
| " 6 | " | 62008 | The West End Grocery Co., 1002 Govt. St., Victoria. | 3 bts. | 1 00 | Welch Grape Juice Co., Westfield, N.Y. | | Welch's |
| " 9 | " | 62012 | Copas & Young, corner Broad and Fort Sts., Victoria. | " | 0 75 | Fremont Grape Juice Co., Fremont, Ohio. | | Fremont |
| " 9 | " | 62013 | " " " | " | 0 75 | Randall Grape Juice Co., Jordan, Ont. | | Randall's Gold Medal Brand |
| " 11 | " | 62022 | Acton Bros., 1317 Douglas St., Victoria. | " | 0 75 | E. D. Smith, Winona, Ont. | | E.D.S. |

UNFERMENTED GRAPE JUICE.

Results of Analysis.

| Sp. Gr. of Juice. | Sp. Gr. of Distillate. | Alcohol by Volume. | Sp. Gr. of De-alcoholized Juice. | Extract. | | Ash per 100cc. | Acidity as Tartaric per 100cc. | Reducing sugars per 100cc. | Milligram Phosphoric Acid per 100cc. | Preservative. | Dyes. | No. of Sample. | Remarks and Opinion of the Chief Analyst. |
|-------------------|------------------------|--------------------|----------------------------------|---------------------------------------|-------------------------------|----------------|--------------------------------|----------------------------|--------------------------------------|---------------|-------|----------------|---|
| | | | | From Sp. Gr. of De-alcoholized Juice. | By drying 24 hours at 100° C. | | | | | | | | |

E. J. MORGAN, INSPECTOR.

| | | | | | | | | | | | | | |
|------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 1061 | 1.000 | None. | 1.060 | 15.5 | 13.38 | 0.315 | 1.18 | 13.58 | 28 | None. | None. | 55111 | Genuine. |
| 1121 | 1.000 | " | 1.119 | 31.0 | 26.30 | 0.265 | 1.24 | 26.70 | 25 | " | " | 55112 | Genuine. |
| 1066 | 0.9996 | 0.66 | 1.077 | 20.0 | 13.90 | 0.210 | 0.88 | 14.67 | 22 | " | " | 55113 | Genuine. |
| 1065 | 0.9992 | 0.53 | 1.073 | 18.95 | 14.30 | 0.270 | 1.00 | 14.27 | 41 | " | " | 55114 | Genuine. |
| See | Sample | Nos. | 60159, | 62013 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 55115 | |

D. O'SULLIVAN, INSPECTOR.

| | | | | | | | | | | | | | |
|------|--------|------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|----------|
| See | Sample | Nos. | 55114, | 63543 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 62003 | |
| " | " | " | 61702 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 62008 | |
| " | " | " | 55111, | 52032 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 62012 | |
| 1084 | 0.9996 | 0.26 | 1.088 | 22.88 | 17.00 | 0.220 | 1.08 | 18.60 | 32 | None. | None. | 62013 | Genuine. |
| See | Sample | Nos. | 55112, | 60709, | 64537, | 2621 | ..... | ..... | ..... | ..... | ..... | 62022 | |